

PIP 2000/2100-Series Spike



Accelerator Additive for Protect 2000/2100-Series Urethane Systems

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DESCRIPTION:

PIP 2000/2100-Series Spike is a liquid accelerator that will speed the cure rate of PIP 2000 and 2100 Series Urethane systems. It is especially useful in situations where substrate temperatures are expected to be at the systems minimum temperature limit.

ADVANTAGES:

- Reduces the cure time up to 50%
- Easily added at application site
- Safe non-hazardous; DOT Non-Regulated

STORAGE: Materials should be stored in un-opened containers between 65°F (18°C) and 90°F (32°C) and at or below 50% RH.

SHELF LIFE: 1 year from date of manufacture (un-opened).

PACKAGING KITS/ PART NUMBERS:

Available in: 1 Gallon Cans

LIMITATIONS:

The use of **PIP 2000/2100-Series Spike** additive will reduce working times and leveling properties in comparison to PIP 2000-Series or PIP 2100-Series mixed without **PIP 2000/2100-Series Spike** given the same application temperature. This is especially true at higher (>80F) temperatures. The use of this material may cause slight gloss reduction. Use of this material beyond the 2 fl. oz. recommendation at temperatures higher than 80F will show a dramatic increase in viscosity and reduction of working time. PIP 2000-Series or PIP 2100-Series pigmented systems are more subject to this rapid viscosity increase in comparison to as opposed to clear systems at these higher temperatures. Wet edge color uniformity is reduced when coating is accelerated. Use extreme caution at temperatures >80F.

Please contact Technical Service for additional recommendations.

MATERIAL PROPERTIES*:

Properties	Test Method	Results
Flash Point	ASTM D3278	≥188 °F
Weight per gallon	ASTM D1475	8.15 lbs/gal
Viscosity	ASTM D2196	50 cps cPs

MIXING:

Add 2 fl. oz of **PIP 2000/2100-Series Spike** to a large 2.5 gallon kit of PIP 2000-Series or PIP 2100-Series Urethane coatings. This effectively doubles (2X) the active catalyst of the standard product. Up to 6fl. oz. maximum **PIP 2000/2100-Series Spike** can be added in extreme cooler conditions.

Do not use higher levels without contacting the technical department of Protective Industrial Polymers for further information

Cure Profile (72F and 30% RH) PIP 2000/PIP 2100

Standard product (Tack free, light foot traffic ready)	6-7 hrs
2 fl. oz. PIP 2000/2100-Series Spike/2.5 gal. mixed	4.5-5.5 hrs
4 fl. oz. PIP 2000/2100-Series Spike/2.5 gal. mixed	3.5-4.5 hrs

Cure Profile (60F and 30% RH) PIP 2000/PIP 2100

Standard product (Tack free, light foot traffic ready)	9-10 hrs
4 fl. oz. PIP 2000/2100-Series Spike/2.5 gal. mixed	7 hrs
6 fl. oz. PIP 2000/2100-Series Spike/2.5 gal. mixed	5 hrs

Cure Profile (90F and 60% RH) PIP 2000/PIP 2100

Standard product (Tack free, light foot traffic ready)	3-4 hrs
2 fl. oz. PIP 2000/2100-Series Spike/2.5 gal. mixed	1.5-2 hrs.
4 fl. oz. PIP 2000/2100-Series Spike/2.5 gal. mixed	Not recommended
6 fl. oz. PIP 2000/2100-Series Spike/2.5 gal. mixed	Not recommended

TECHNICAL SUPPORT: For application questions, please contact your salesman or PIP technical service at 440-243-4560.

DISPOSAL: Dispose in accordance with federal, state, and local regulations.

READ SAFETY DATA SHEET (SDS) FOR SAFETY AND PRECAUTIONS. USE PRODUCT AS DIRECTED FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

WARRANTY AND CONDITIONS OF USAGE

WARRANTY AND LIMITATION OF LIABILITY: Protective Industrial Polymers Inc. ("PIP") warrants that its products shall conform to the manufacturer's written specifications and shall be free from defects for one (1) year from the date of purchase. PIP MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES AND DISCLAIMS THE SAME, INCLUDING, WITHOUT LIMITATION, FAILURE OF THE PRODUCT DUE TO ACTS OF GOD, FLOODING, EXTREME OR ABNORMAL TEMPERATURES, HUMIDITY AND MOISTURE, STRUCTURAL CONDITIONS, SITE PREPARATION AND CONDITIONS, ACCIDENTS, DAMAGE CAUSED BY INSTALLATION OF MACHINERY, EQUIPMENT OR FIXTURES WITHOUT ADEQUATE FLOOR PROTECTION OR WITHOUT ADEQUATE TIME FOR CURING, FAILURE TO COMPLY WITH CONDITIONS OF USAGE (SPECIFIED BELOW), VANDALISM, NEGLIGENCE OR INTENTIONAL ACTS OF THIRD PARTIES OR OTHER CASUALTIES. If any PIP product fails to conform to this warranty, PIP shall either replace the product at no cost to Buyer or refund the cost of the product, in PIP's sole discretion. Replacement of any product or a refund of the cost of any product shall be the sole and exclusive remedy available to buyer, and buyer shall have no claim for incidental, special or consequential damages, including, without limitation, business interruption damages. Any warranty claim must be made within one (1) year from the date of delivery of products. PIP does not authorize anyone on its behalf to make any written or oral statements which in any way alter PIP's warranty or installation and storage information or instructions in its product literature or on its packaging labels. Any installation of PIP products which fails to conform to such installation information or instructions or the "Conditions of Usage" (specified below) shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of PIP's products for the Buyer's intended purposes.

CONDITIONS OF USAGE: Installation of all products purchased must be by professional installers periodically published by PIP or otherwise approved by PIP in writing. Modification to any of PIP's products voids the warranty. The installer shall maintain a written contemporaneous record of field conditions (including, without limitation, surface and atmospheric conditions, usage rates, and lot numbers of products installed). PIP reserves the right of inspection of any installed product, installation and maintenance records and records of field conditions and may conduct additional testing as is reasonably required to investigate any warranty claims. Warranty shall only apply for products or materials that have been paid for in full. Moisture Vapor Transmission (MVT) and ASR (Alkali Silica Reaction) Disclaimer and Exclusion: Although rare, some floors at or below grade level are sometimes subjected to saturation by moisture from beneath the concrete floor slab. This moisture can travel through the concrete and collect between floor toppings creating the potential for delaminating from hydrostatic pressure and or ASR. Conditions contributing to this include heavy rainfall, broken pipes, excess hydration within fresh concrete, and other factors or defective and old concrete. These factors are difficult, if not impossible to predict. PIP recommends testing for MVT and/or the presence of ASR in the concrete substrate prior to applying any polymer floor topping. The recommended test method for MVT is ASTM F 2170-11. ASR can be predicted by a higher than normal pH within the concrete. If high pH should be detected, it is recommended a lab test for ASR. If and when delamination of the floor occurs because of a moisture condition that exists beneath or in the concrete slab beyond the capacity of the individual product installed or failure of the concrete due to ASR, this Limited Warranty does not extend to such delaminating or topping failure. This writing constitutes the sole and only agreement of warranty relating to PIP products.